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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR		AT	TORNEY DOCKET NO.
09/283,770	Q3/31/99	ACHITUV		R	IR-013
<u></u>		WM02/1102	コ	EXAMINER	
DAVID R GRAHAM 1337 CHEWPON AVENUE MILPITAS CA 95035		Wilder IIO2		BUGG,G	
				ART UNIT	PAPER NUMBER
MILPITAS CA	75035			2613	
				DATE MAILED:	11/02/01

Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner of Patents and Trademarks

	Application No.	Applicant(s)					
	09/283,770	ACHITUV ET AL.					
Office Action Summary	Examiner	Art Unit					
•	George A Bugg	2613					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address							
Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period w Failure to reply within the set or extended period for reply will, by statute, - Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). Status	i6(a). In no event, however, may a reply be tin within the statutory minimum of thirty (30) day ill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).					
1) Responsive to communication(s) filed on							
	s action is non-final.						
Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims							
4) Claim(s) 1-24 is/are pending in the application.							
4a) Of the above claim(s) is/are withdrawn from consideration.							
5) Claim(s) is/are allowed.							
6)⊠ Claim(s) <u>1-24</u> is/are rejected.							
7) Claim(s) is/are objected to.							
8) Claim(s) are subject to restriction and/or election requirement.							
Application Papers							
9) The specification is objected to by the Examiner.							
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner. If approved, corrected drawings are required in reply to this Office action.							
12) The oath or declaration is objected to by the Examiner.							
Priority under 35 U.S.C. §§ 119 and 120							
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).							
a) ☐ All b) ☐ Some * c) ☐ None of:							
1. Certified copies of the priority documents have been received.							
2. Certified copies of the priority documents have been received in Application No							
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.							
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).							
a) The translation of the foreign language provisional application has been received.							
15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121. Attachment(s)							
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s) 4. 4) Interview Summary (PTO-413) Paper No(s). 5) Notice of Informal Patent Application (PTO-152) 6) Other:							

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DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

2. Claims 1-24 are rejected under 35 U.S.C. 102(b) as being clearly anticipated by U.S. Patent No. 5,963,664 to Kumar et al.

As for Claims 1, 13, 18, and 23-24, Kumar discloses (Fig. 2) a set of temporally sequential frames of visual data, each frame representing an image, defining a region, within a panoramic region. Further disclosed (Fig. 2) is the positioning of one or more images, with relationship to the spatial orientation of the panoramic region, while an active image is being displayed. In addition, (Fig. 1, Element 106) shows an output device, which could be any type of video display.

Kumar (Fig. 1) also shows the use of multiple cameras, which would provide at least two non-coincidental images, as well as a plurality of sets of temporally sequential frames, as further disclosed in Claim 13. Also disclosed in Claim 13 is the identification of a branch point, for the purpose of updating an image. Kumar discloses (Col. 17, Lines 13-33) a scene change detection scheme.

Further disclosed in Claim 24, is a readable storage medium, on which is stored one or more computer programs, for producing a visual display, of a panoramic region. Kumar discloses (Col. 4, Lines 58-61) and (Col. 5, Lines 15-17) a computer that is

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programmed to function as an image processing system, and a video storage and retrieval system.

Claim 2 discloses one or more context images, being automatically displayed, in a predetermined manner. Kumar teaches (Fig. 7), (Col. 11, Lines 1-3) a hierarchical technique to register images.

Claims 3-4, disclose an order, in which context images are to be displayed.

Since the frames representing an image are processed sequentially, and a hierarchy for how those images are displayed, already exists, it is logical to assume that the context images would be displayed, as disclosed in Claims 3-4.

As for Claims 15 and 20, Kumar discloses (Col. 5, Lines 7-9) a single camera providing temporally sequential frames of visual data, while the camera pans across the scene, or "rotates at a fixed location".

As for Claim 16, Kumar discloses (Col. 4, Lines 58-61) and (Col. 5, Lines 15-17) a computer that is programmed to function as an image processing system, and a video storage and retrieval system.

In reference to Claims 5-12, Kumar discloses (Col. 4, Lines 58-61) and (Col. 5, Lines 15-17) a computer that is programmed to function as an image processing system, and a video storage and retrieval system. The use of computer software, and a memory, implies that past and present images can be designated, by user instruction, to perform all functions disclosed in Claims 5-12.

Although Claims 21-22 do not disclose user interaction, or image designation, by a user, they do refer to displaying context images, in a specific manner. It is therefore

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implied, that these displays could not take place, without instruction, and are rejected, for the same reasons as Claims 5-12.

Regarding Claims 14 and 19, Kumar teaches (Fig. 2, Element 204) that each overlapping section, of an image, is updated by the new image.

The fact that images can be displayed, while being produced, suggests that an active image is produced in real time.

Conclusion

3. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. The following patents are cited to show the state of the art, with respect to panoramic displays, and mobile images:

U.S. Patent No. 5,850,352 to Moezzi et al.

U.S. Patent No. 6,075,905 to Herman et al.

U.S. Patent No. 6,078,701 to Hsu et al.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to George A Bugg whose telephone number is (703) 305-2329. The examiner can normally be reached on Monday-Friday from 7:30 to 4:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Christopher S Kelley, can be reached on (703) 304-4856. The fax phone number for the organization where this application or proceeding is assigned is (703) 308-5359.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 305-3900.

George A Bugg Examiner Art Unit 2613

CHRIS KELLEY

SUPERVISORY PATENT EXAMINER

TECHNOLOGY CENTER 2800